

Replacement Sheet



M 1 2 3 4 5 6 7 8 9

← Luciferase



FIG. 2

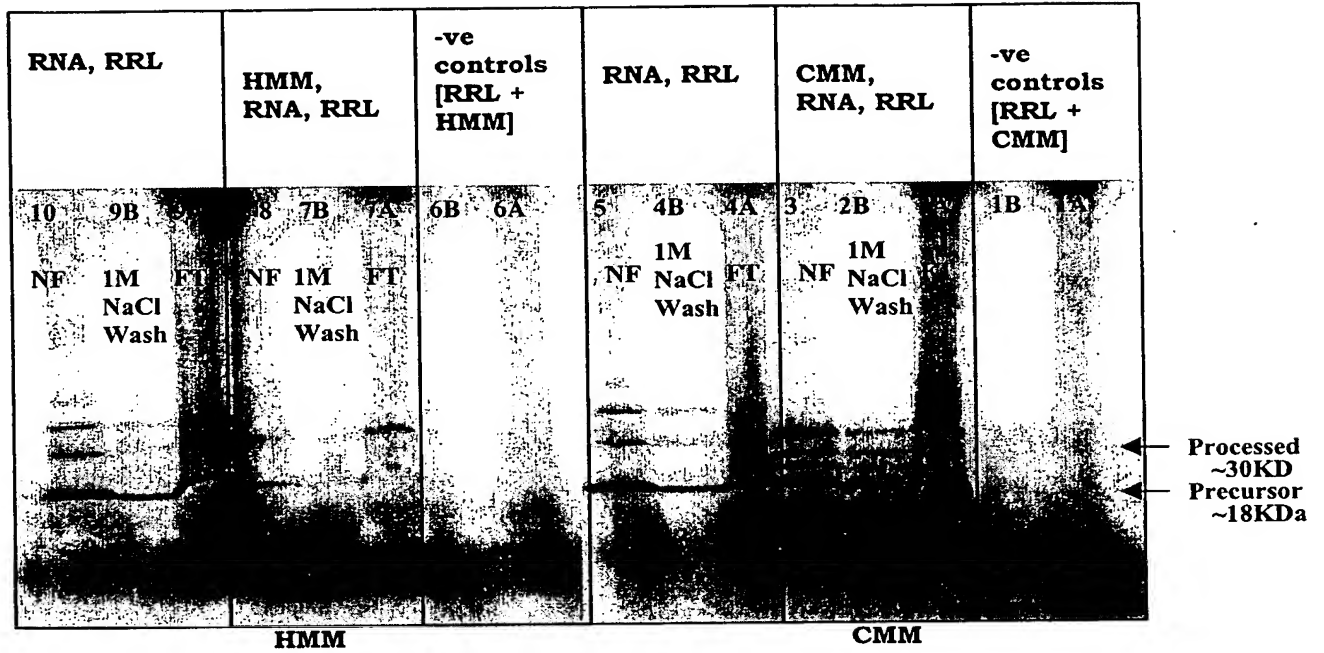


FIG. 3A

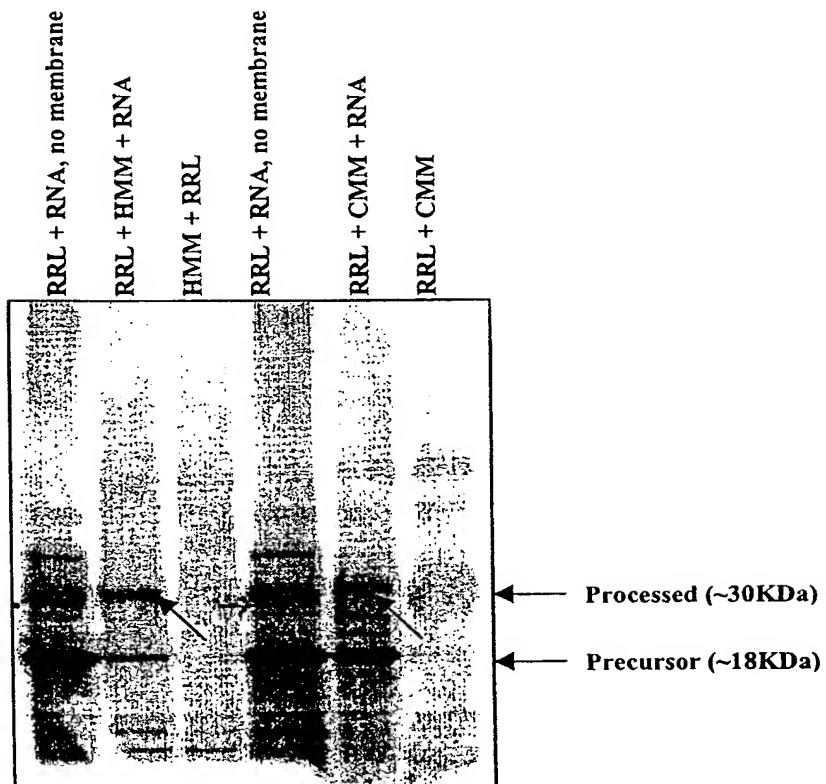


FIG. 3B

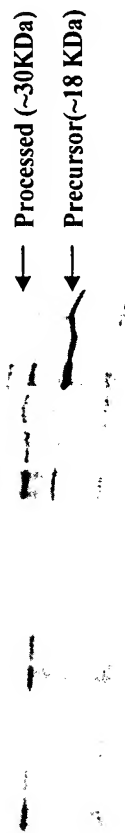
[illegible]

FIG. 4

Purification of His-RNaseH1 on Nickel NTA-Modified Silica Magnetic Particles

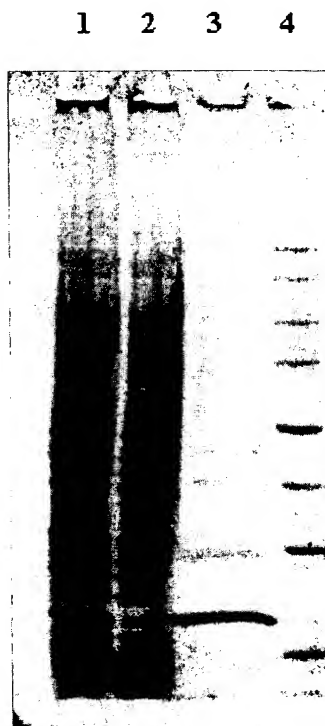
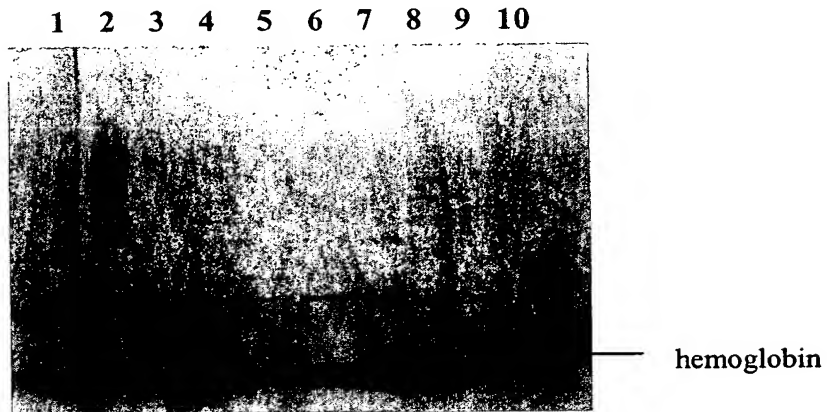


FIG. 6

Purification and Separation of Hemoglobin



Lanes 1: Control lysate (before treatment)
2: Molecular weight markers
3: Nickel 100mM imidazole elution
4: Copper 100mM imidazole elution
5: Cobalt 100mM imidazole elution
6: Zinc 100mM imidazole elution
7: Nickel 500mM imidazole elution
8: Copper 500mM imidazole elution
9: Cobalt 500mM imidazole elution
10: Zinc 500mM imidazole elution

FIG. 7

Purification of His-RNaseH1

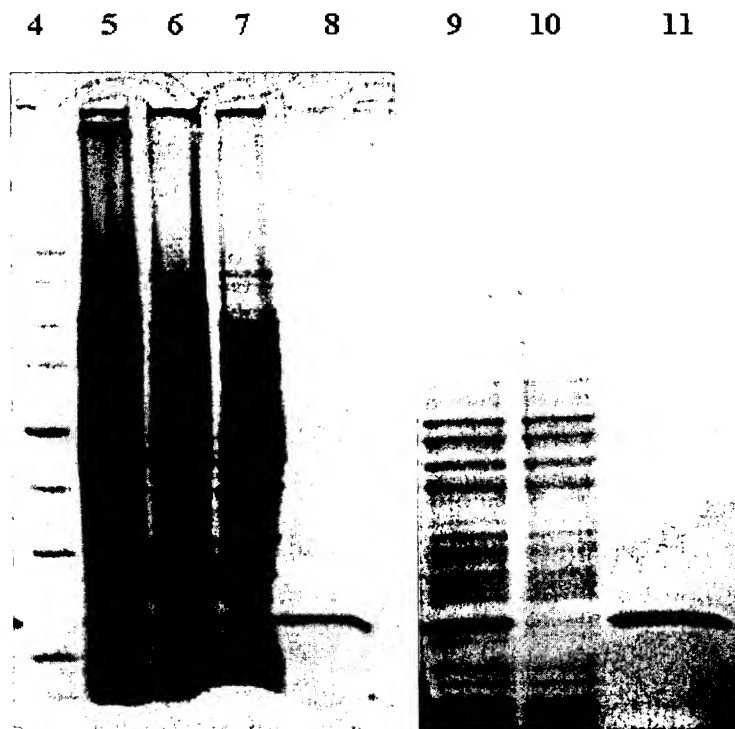
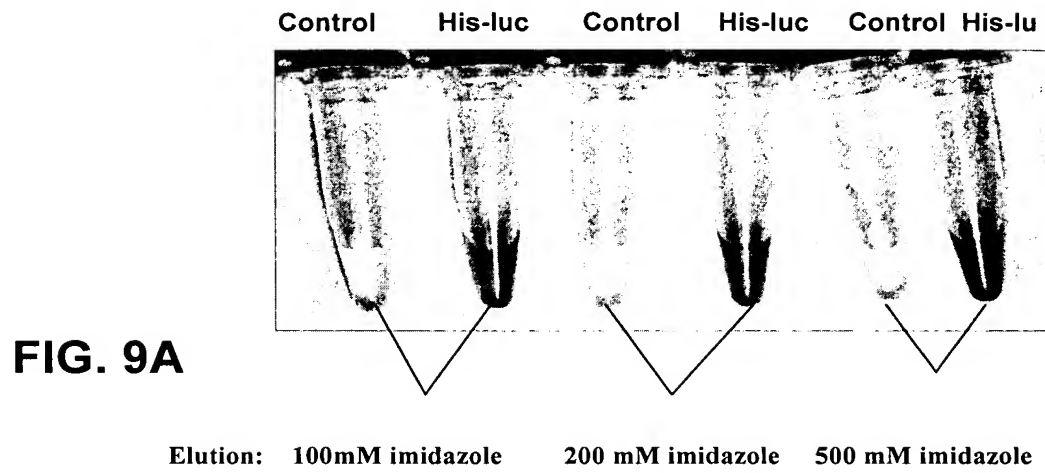
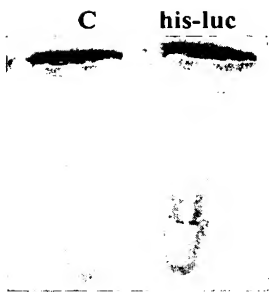


FIG. 8

Replacement Sheet



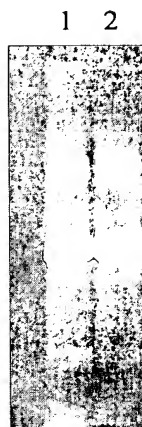


500mM imidazole elution

FIG. 9C



A



B

FIG. 10

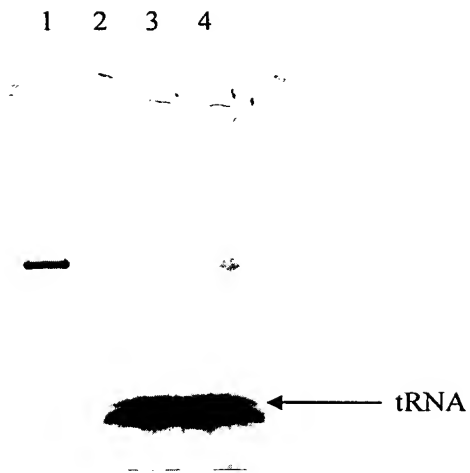


FIG. 11

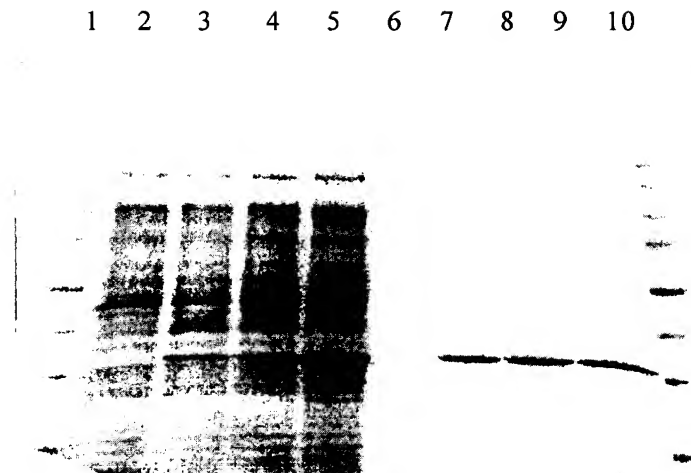


FIG. 12

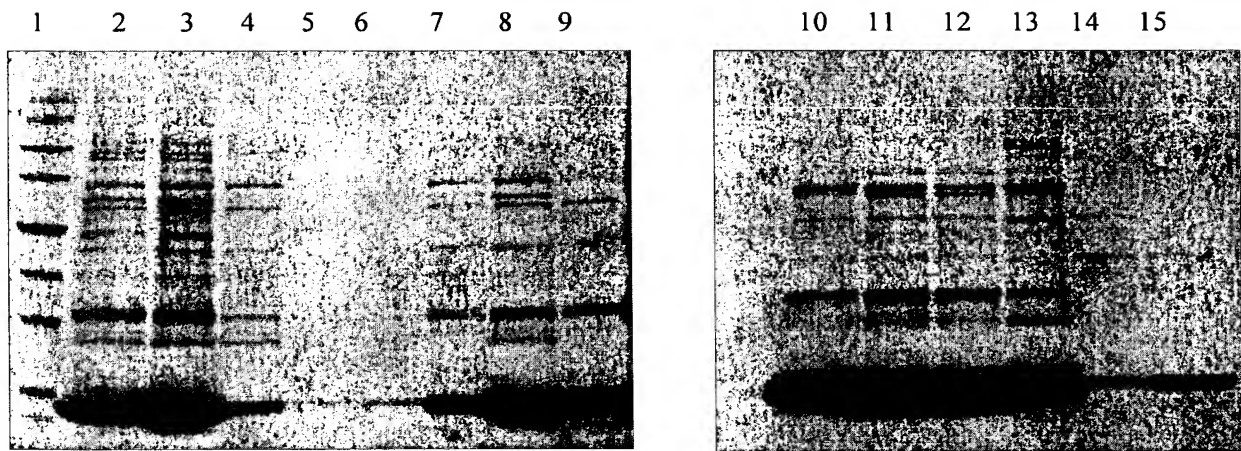


FIG. 15

FIG. 16A

1 2 3 4 5 6 7 8 9 10



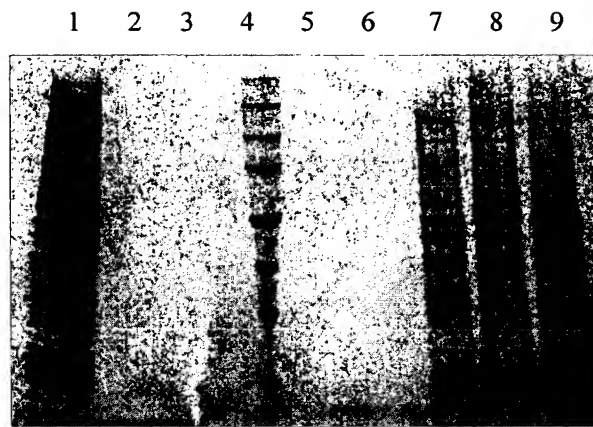


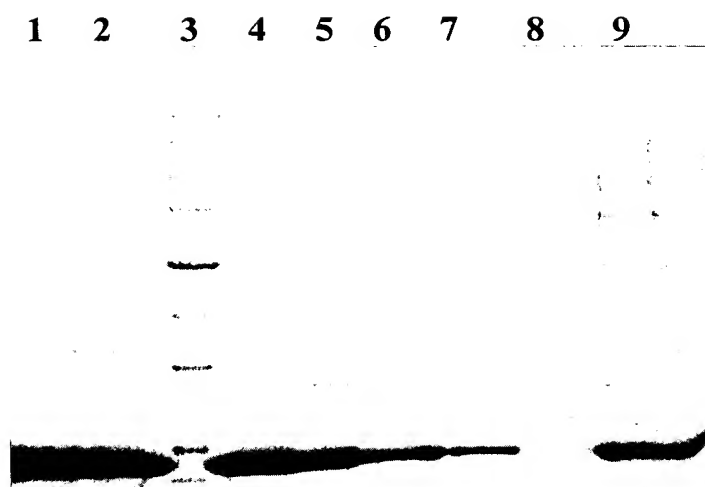
FIG. 17A

FIG. 18A

1 2 3 4 5 6 7 8 9

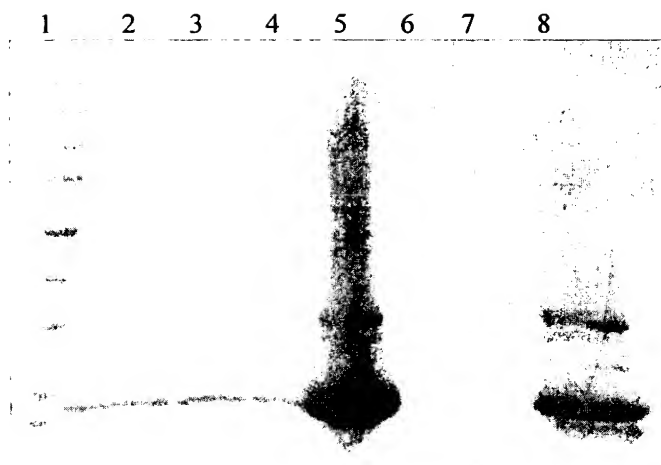
Fig. A. Binding and elution of complex mixture of proteins from copper-MagneSil particles

- Lanes: 1. Wheat germ lysate control
2. 3 μ l wheat germ lysate flow through
3. Marker
4. 5 μ l wheat germ lysate flow through
5. 10 μ l wheat germ lysate flow through
6. 20 μ l wheat germ lysate low through
7. 1 μ l wheat germ lysate elute
8. 5 μ l wheat germ lysate elute
9. 10 μ l wheat germ lysate elute



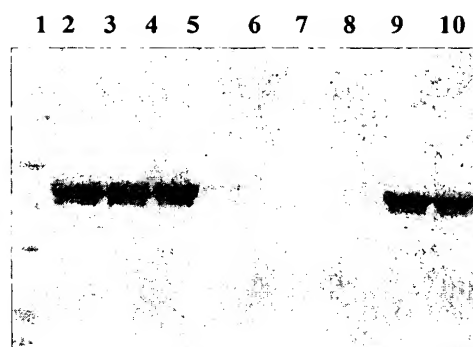
Lanes: 1. Eluted with 100 mM imidazole
2. Eluted with 200 mM imidazole
3. Marker
4. Eluted with 500 mM imidazole
5. Eluted with 1M imidazole
6. Eluted with pH 8.5 ammonium acetate
7. Eluted with pH 9.5 ammonium acetate
8. Eluted with pH 10.5 ammonium acetate
9. Eluted with pH 12.5 ammonium acetate

FIG. 19



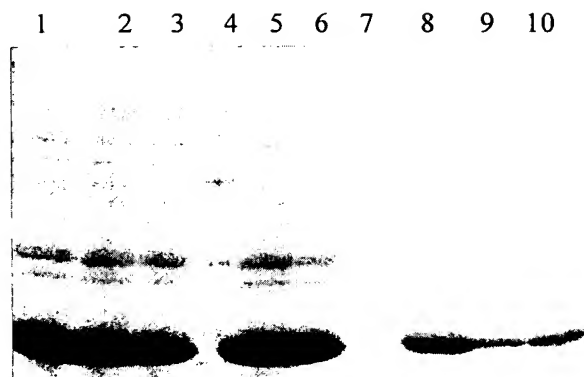
Lanes: 1. Molecular weight markers
2. Eluted with pH 8.5 ammonium acetate
3. Eluted with pH 9.5 ammonium acetate
4. Eluted with pH 10.5 ammonium acetate
5. Eluted with pH 12.5 ammonium acetate
6. Eluted with 0.05% TFA
7. Eluted with 0.1% TFA
8. Eluted with 1.0% TFA

FIG. 20



Lanes 1: Marker	6: Ga ⁺⁺⁺ -magnetic silica flow through
2: Control ovalbumin	7: NTA-magnetic silica elute
3: NTA-magnetic silica flow through	8: Nickel-magnetic silica elute
4: Nickel-magnetic silica flow through	9: Fe ⁺⁺⁺ -magnetic silica elute
5: Fe ⁺⁺⁺ -magnetic silica flow through	10: Ga ⁺⁺⁺ -magnetic silica elute

FIG. 21



- | | |
|---|--|
| 1. Control retic lysate | 6. Fe^{2+} -magnetic silica FT |
| 2. NTA-magnetic silica FT | 7. NTA-magnetic silica 2% NH_4OH eluant |
| 3. Ni^{2+} -magnetic silica FT | 8. Ni^{2+} -magnetic silica a 2% NH_4OH eluant |
| 4. Marker | 9. Ga^{3+} -magnetic silica a 2% NH_4OH eluant |
| 5. Ga^{3+} -magnetic silica FT | 10. Fe^{3+} -magnetic silica a 2% NH_4OH eluant |

FIG. 22

FIG. 23A

A.

Time (Hours)
0 0.5 1 1.5 2 2.5 3

FIG. 23C

C.

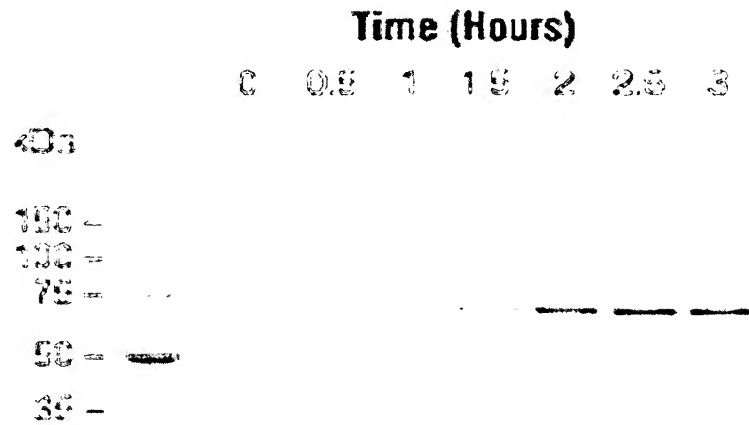


FIG. 24

1 2 3 4



**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

☐ BLACK BORDERS

☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

☒ FADED TEXT OR DRAWING

☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING

☐ SKEWED/SLANTED IMAGES

☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS

☐ GRAY SCALE DOCUMENTS

☐ LINES OR MARKS ON ORIGINAL DOCUMENT

☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.